

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
24 July 2003 (24.07.2003)

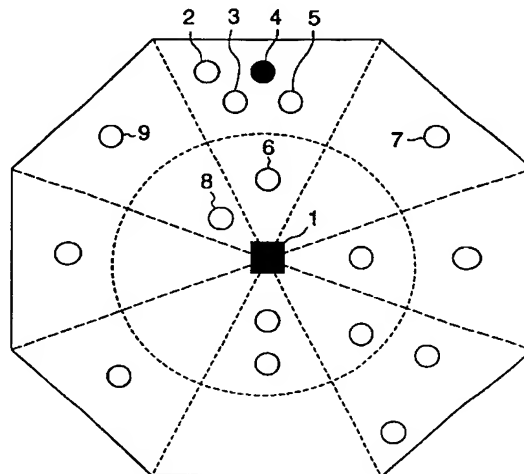
PCT

(10) International Publication Number
WO 03/061150 A1

- (51) International Patent Classification⁷: H04B 1/707 (74) Agent: DUIJVESTIJN, Adrianus, J.; Internationaal Octrooibureau B.V., Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).
- (21) International Application Number: PCT/IB02/05249
- (22) International Filing Date: 9 December 2002 (09.12.2002) (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
02075199.6 17 January 2002 (17.01.2002) EP
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- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:
— with international search report

[Continued on next page]

(54) Title: MULTI-USER DETECTION IN MOBILE TERMINAL FOR REDUCING INTERFERENCE



(57) Abstract: Interference cancellation in a mobile terminal (4) in telecommunication systems like Direct Sequence - Code Division Multiple Access systems or DS-CDMA systems can be improved by providing the mobile terminal (4) with a multi-user detector (41,42,43). These multi-user detectors require the spreading codes of other mobile terminals (2,3,5,6,7,8,9), which spreading codes are available in base stations (1) and thus need to be sent to said mobile terminal (4). By further transmitting power information of other mobile terminals (2,3,5,6,7,8,9) to the mobile terminal (4), a selector (52) can make an intelligent selection in said mobile terminal (4) and select the most important spreading codes thereby reducing the computational complexity. By locating a selector (22) in a base station (1), an intelligent selection can also be made in said base station. Preferably a selection is made per antenna sector and/or in dependence of antenna sectors, in which case direction information of other mobile terminals (2,3,5,6,7,8,9) need to be used.